

Daily Report Cruise 3

September 27, 2010

This is the third cruise of the MC252 Deep water sediment sampling program, R/V Gyre. Four stations were sampled (NF-013, NF-014, ALT-NF-15 and LBNL-17). No hydrocarbons were observed, but one science team member claimed to smell hydrocarbons and observe a sheen in the sediment overlaying water. This was not observed by the LBNL group. ROBIO (an under water semi autonomous robot with camera) was deployed between stations ALT-NF-015 and LBNL-17.

Station 1

1. Station ID: NF-013
2. Average Lat: 28.738786
Average Lon: -88.335619
3. Depth: 1567m
4. Time Corer Deployed: 06:50
Time Corer Recovered: 07:30
Time Corer on Deck: 08:05
5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

6. LBNL Sampling Team: Kevin McClay and Julian Fortney
7. Location Notes: 1 cast attempted. Overlaying water very murky. Filters clogged quickly. Soft sediment interface, likely drilling mud.
8. LBNL samples:

Core number GT0041:

Sample ID	Sample Type	Volume	Storage
SE-20100927-GY-NF013-BC-062	Intact Core	NA	-80C
SU-20100927-GY-NF013-BC-063	AODC	20ml	4C
SU-20100927-GY-NF013-BC-064	DNA Filter	790ml	-80C
SU-20100927-GY-NF013-BC-065	DNA Filter	700ml	-80C

Station 2

1. Station ID: NF-014
2. Average Lat: 28.719603
Average Lon: -88.3447

Daily Report Cruise 3

September 27, 2010

3. Depth: 1579m
4. Time Corer Deployed: 09:58
Time Corer Recovered: 10:29
Time Corer on Deck: 11:01
5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

6. LBNL Sampling Team: Kevin McClay and Julian Fortney
7. Location Notes: 1 cast attempted. Overlaying water very murky. Filters clogged quickly. Soft sediment interface, likely drilling mud.
8. LBNL samples:

Core number GT0033:

Sample ID	Sample Type	Volume	Storage
SE-20100927-GY-NF014-BC-066	Intact Core	NA	-80C
SU-20100927-GY-NF014-BC-067	AODC	20ml	4C
SU-20100927-GY-NF014-BC-068	DNA Filter	700ml	-80C
SU-20100927-GY-NF014-BC-069	DNA Filter	700ml	-80C

Station 3

1. Station ID: ALT-NF-015
2. Average Lat: 28.709925
Average Lon: -88.366436
3. Depth: 1607m
4. Time Corer Deployed: 12:47
Time Corer Recovered: 13:20
Time Corer on Deck: 13:53
5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

6. LBNL Sampling Team: Kevin McClay and Julian Fortney
7. Location Notes: 1 cast attempted. Overlaying water very murky. Filters clogged quickly. Soft sediment interface, likely drilling mud.
8. LBNL samples:

Daily Report Cruise 3

September 27, 2010

Core number GT0043:

Sample ID	Sample Type	Volume	Storage
SE-20100927-GY-ALTNF015-BC-070	Intact Core	NA	-80C
SU-20100927-GY-ALTNF015-BC-071	AODC	20ml	4C
SU-20100927-GY-ALTNF015-BC-072	DNA Filter	700ml	-80C
SU-20100927-GY-ALTNF015-BC-073	DNA Filter	700ml	-80C

Station 4

1. Station ID: LBNL-17
2. Average Lat: 28.696767
Average Lon: -88.384875
3. Depth: 1595m
4. Time Corer Deployed: 17:31
Time Corer Recovered: 18:03
Time Corer on Deck: 18:37
5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

6. LBNL Sampling Team: Kevin McClay and Julian Fortney
7. Location Notes: 1 cast attempted. Overlaying water very murky. Filters clogged quickly. Soft sediment interface, likely drilling mud.
8. LBNL samples:

Core number 1: GT0040

Sample ID	Sample Type	Volume	Storage
SE-20100927-GY-LBNL17-BC-074	Intact Core	NA	-80C
SU-20100927-GY-LBNL17-BC-084	AODC	20ml	4C
SU-20100927-GY-LBNL17-	DNA Filter	650ml	-80C

Daily Report Cruise 3

September 27, 2010

BC-088			
SU-20100927-GY-LBNL17-BC-089	DNA Filter	700ml	-80C

Core number 2: GT0009

Sample ID	Sample Type	Volume	Storage
SE-20100927-GY-LBNL17-BC-075	Intact Core	NA	-80C
SU-20100927-GY-LBNL17-BC-083	AODC	20ml	4C
SU-20100927-GY-LBNL17-BC-092	Culture	10ml	4C
SU-20100927-GY-LBNL17-BC-090	RNA Filter	700ml	-80C with 10ml RNA later
SU-20100927-GY-LBNL17-BC-091	RNA Filter	620ml	-80C with 10ml RNA later
SU-20100927-GY-LBNL17-BC-080	Single cell genomics	1.5ml	-80C with 0.5ml 60% glycerol
SU-20100927-GY-LBNL17-BC-081	Single cell genomics	1.5ml	-80C with 0.5ml 60% glycerol
SU-20100927-GY-LBNL17-BC-082	Single cell genomics	1.5ml	-80C with 0.5ml 60% glycerol

Core number 3: GT0046

Sample ID	Sample Type	Volume	Storage
SE-20100927-GY-LBNL17-BC-077	Single cell genomics	1ml (sediment)	-80C with 0.5ml 60% glycerol
SE-20100927-GY-LBNL17-BC-078	AODC	1ml (sediment)	4C with 0.1ml of formaldehyde
SE-20100927-GY-LBNL17-BC-079	Culture	1ml (sediment)	4C
SE-20100927-GY-LBNL17-BC-076	RNA	1.5ml (sediment)	-80C with 10ml RNA later
SU-20100927-GY-LBNL17-BC-087	SIP	125ml	4C
SU-20100927-GY-LBNL17-BC-086	Nutrients	100ml	-80C
SU-20100927-GY-LBNL17-BC-085	VOA	40ml	4C with 0.05ml HCL

Daily Report Cruise 3

September 27, 2010

Daily Report Cruise 3

September 27, 2010
